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preparative reaction, an analysis reaction, sample acquisition, DNA extraction, amplification, IV transcription or labeling;

performing a first reaction in the first chamber;

moving the sample from the first chamber to the second chamber, wherein the second chamber is selected from the group of chambers adapted to perform a preparative reaction, an analysis reaction, sample acquisition, DNA extraction, amplification, IV transcription or labeling;

performing a second reaction in the second chamber, the second reaction being different from the first reaction; [and]

performing confocal microscopy using a reader device;

receiving a signal output from the reader device; and

analyzing the signal output with a digital computer to indicate [indicating] a property of the sample.

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93. (Amended) A method of analyzing a sample in an integrated microfluidic device having at least three chambers in fluid communication, comprising:

supplying the sample into a first chamber of the integrated microfluidic device, wherein the first chamber is selected from the group of chambers adapted to perform a preparative reaction, an analysis reaction, sample acquisition, DNA extraction, amplification, IV transcription or labeling;

performing a first reaction in the first chamber;

moving the sample from the first chamber to the second chamber, wherein the second chamber is selected from the group of chambers adapted to perform a preparative reaction, an analysis reaction, sample acquisition, DNA extraction, amplification, IV transcription or labeling;

performing a second reaction in the second chamber, the second reaction being different from the first reaction;

moving the sample from the second chamber to the third chamber, wherein the third chamber is selected from the group of chambers adapted to perform a preparative reaction, an analysis reaction, sample acquisition, DNA extraction, amplification, IV transcription or labeling;

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B3

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performing a third reaction in the third chamber, the third reaction being different from both the first and second reactions; [and]

performing confocal microscopy using a reader device

receiving a signal output from the reader device; and

analyzing the signal output with a digital computer to indicate [indicating] a property of the sample.

106. (Amended) A method of analyzing a sample in an integrated microfluidic device, comprising:

supplying the sample into a first chamber selected from the group consisting of a chamber adapted to perform a preparative reaction, an analysis reaction, sample acquisition, DNA extraction, amplification, IV transcription or labeling;

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moving the sample from the first chamber to a second chamber by employing a valve located in a channel between the first chamber and the second chamber, the second chamber being selected from the group consisting of a chamber adapted to perform a preparative reaction, an analysis reaction, sample acquisition, DNA extraction, amplification, IV transcription or labeling; and

receiving a signal output from [the] a reader device and indicating a property of the sample.

107. (Amended) A method of analyzing a sample in an integrated microfluidic device, comprising:

supplying the sample into a first chamber selected from the group consisting of a chamber adapted to perform a preparative reaction, an analysis reaction, sample acquisition, DNA extraction, amplification, IV transcription or labeling;

moving the sample from the first chamber to a second by employing a first valve located in a first channel between the first chamber and the second chamber, the second chamber being selected from the group consisting of a chamber adapted to perform a preparative reaction, an analysis reactions, sample acquisition, DNA extraction, amplification, IV transcription or labeling;

moving the sample from the second chamber to a third chamber by employing a second valve located in a second channel between the second chamber and the third chamber, the second chamber, the third chamber being selected from the group consisting of a chamber adapted to perform a preparative reaction, an analysis reactions, sample acquisition, DNA extraction, amplification, IV transcription or labeling;
and

receiving a signal output from [the] a reader device and indicating a property of the sample.

Please enter the following new claims:

108. The method of claim 106, wherein said supplying includes placing the integrated microfluidic device in contact with a reusable base unit and supplying pressure by the reusable base unit.

109. The method of claim 107, wherein said supplying includes placing the integrated microfluidic device in contact with a reusable base unit and supplying pressure by the reusable base unit for moving the sample from the first chamber to the second chamber and for moving the sample from the second chamber to the third chamber.--

REMARKS

In the Office Action of August 3, 2000, the Examiner made several "formal" objections and rejections.

A. Specification

The "Cross Reference to Related Applications" section (on page 1 of the specification) has been amended to include the numbers of patent which have now issued.

B. Drawings